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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,273	03/16/2004	Jaime E. Garcia	JK01488A	2972
	7590 03/27/200 & DECKER CORPOR	EXAMINER		
701 EAST JOP	PA ROAD, TW199	LANDRUM, EDWARD F		
TOWSON, MD 21286			ART UNIT	PAPER NUMBER
			3724	
			MAIL DATE	DELIVERY MODE
			03/27/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/801,273	GARCIA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Edward F. Landrum	3724				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>11 M</u>	arch 2008					
	action is non-final.					
<u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
. —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) <u>1-7,34 and 35</u> is/are pending in the application.						
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) 1-7,34 and 35 is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· <u> </u>					
Paper No(s)/Mail Date 6) Other:						

Office Action Summary

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 4, 6, 7, are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito et al (U.S Patent No. 5,357834), hereinafter Ito, in view of Hurn et al (U.S Patent No. 5,850,698), hereinafter Hurn.

Regarding claim 1, Ito teaches (see Figures 1-3) a miter saw (1) comprising a base (2) having a turn-table (3), a work piece positioning fence (6) attached to the base (2), a cutting assembly (21) pivotally attached to the miter saw. A motor (41) is drivingly connected to the arbor (33) of the saw blade (36) and configured so as to not contact any portion of the base or fence (6) when the mitering at least 45 degrees from a plane substantially perpendicular to the work piece positioning fence (see Figure 2; Col. 6, lines 1-20). The motor (41) has a motor shaft (42) and a gear assembly (42a and 39) that transfers rotational motion from the motor shaft (42) to the arbor (33). A gear housing (32 and 35) covers the motor shaft, arbor, and gears, has a portion directly below the motor shaft (42) that is exposed, and extends in one direction higher than the arbor. The arbor (33) does not extend beyond the motor shaft (42). The gear (39) connected to the arbor (33) is a bevel gear. A blade guard (31) surrounds the blade.

Regarding claim 4, Ito teaches (see Figure 3) the gear housing/box (32 and 35) tapers in a direction of the base.

Regarding claim 7, Ito teaches (see Figure 1) the miter saw is a slide-type miter saw.

Ito teaches all of the elements of the current invention as stated above except the use of a gear assembly and a motor orientated substantially perpendicular to the arbor of the saw.

Hurn teaches (see Figure 2) a motor (15) oriented substantially perpendicular to an arbor (21) in a circular saw while still not allowing the arbor to extend beyond the motor shaft. A gear assembly is used to transfer the rotational power of the motor to the saw blade (28).

It would have been obvious to have modified Ito to incorporate the teachings of Hurn to use an established method of transferring the rotational motion generated by the motor to the saw blade while still allowing the saw blade to bevel to the degree that was originally presented by Ito.

3. Claims 2, 3, 34, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over the modified device of Ito, as stated in section 2, in view of Avakian (U.S Patent No. 3,611,859) or Allemann (U.S Patent No. 2,925,104).

The modified device of Ito teaches all of the elements of the current invention as stated above except for the gear assembly containing a helical and bevel gears as well as a jackshaft. The jack shaft being rotatably connected to the second bevel gear and a helical gear set disposed between the jack shaft and the motor shaft.

Avakian teaches (Col. 2, lines 20-27) a first helical gear that is mounted to a rotating shaft. The first helical gear rotates a second helical gear that is attached to a jack shaft. The jack shaft is attached to a bevel gear which drives a gear box.

Allemann teaches (see Figure 1) a first helical gear (22), which is mounted to a motor shaft (20) that drives a second helical gear (24). The second helical gear drives a jack shaft (26) that in turn rotates a second bevel gear (52) attached to the jack shaft (26). The second bevel gear (52) meshes with a first bevel gear (54) that is mounted to an arbor (50) to rotate a saw (46).

It would have been obvious to have modified the modified device of Ito to incorporate the teachings of Avakian or Allemann to incorporate a helical/bevel gear assembly with a jack shaft between each assembly for the purpose of transferring rotational motion generated by the motor, which is offset from the rotational axis of the saw, to the arbor and still allow the location of the motor to not interfere with the ability of the saw to bevel. This would allow a user to move the motor, which could burn or shock a user if touched, away from any location that a user would normally touch on the saw.

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over the modified device of Ito, as stated in section 2, in view of Hollinger et al (U.S Patent No. 6,615,701), hereinafter Hollinger.

The modified device of Ito teaches all of the elements of the current invention as stated above except for a trunnion being disposed between the cutting assembly and the turntable so as to permit the cutting assembly to bevel with respect to the base.

Hollinger teaches (Col. 4, lines 50-51; also see Figure 4) a trunnion (32) mounted between the base and the cutting assembly.

It would have been obvious to have modified the modified device of Ito to incorporate the teachings of Hollinger to use a trunnion for the purpose of allowing the cutting assembly to easily be moved to different angular orientations with respect to the base so a user could use the saw to make a variety of different cuts.

Response to Arguments

5. Applicant's arguments with respect to claims 1-7, 34 and 35 have been considered but are moot in view of the new ground(s) of rejection.

The portion of the housing directly below the motor shaft is exposed as there is a gap between the housing and the motor shaft and therefore the portion of the housing is exposed to air and anything else that could potentially come in contact with the housing portion.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Stumpf et al (U.S Patent No. 5,943,931), Brunson et al (U.S Publication No. 2001/0042429), Brunson (U.S Patent No. 6,474,206), Sasaki et al (U.S Patent No. 5,564,323), Bergler (U.S Patent No. 4,537,105), Itzov (U.S Patent No. 5,865,079), and Mckeage (U.S Patent No. 1,803,068) all teach miter saws including various elements of the disclosed invention.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward F. Landrum whose telephone number is 571-272-5567. The examiner can normally be reached on Monday-Friday 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer Ashley can be reached on 571-272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/E. F. L./
Examiner, Art Unit 3724
3/19/2008
/Boyer D. Ashley/
Supervisory Patent Examiner, Art Unit 3724